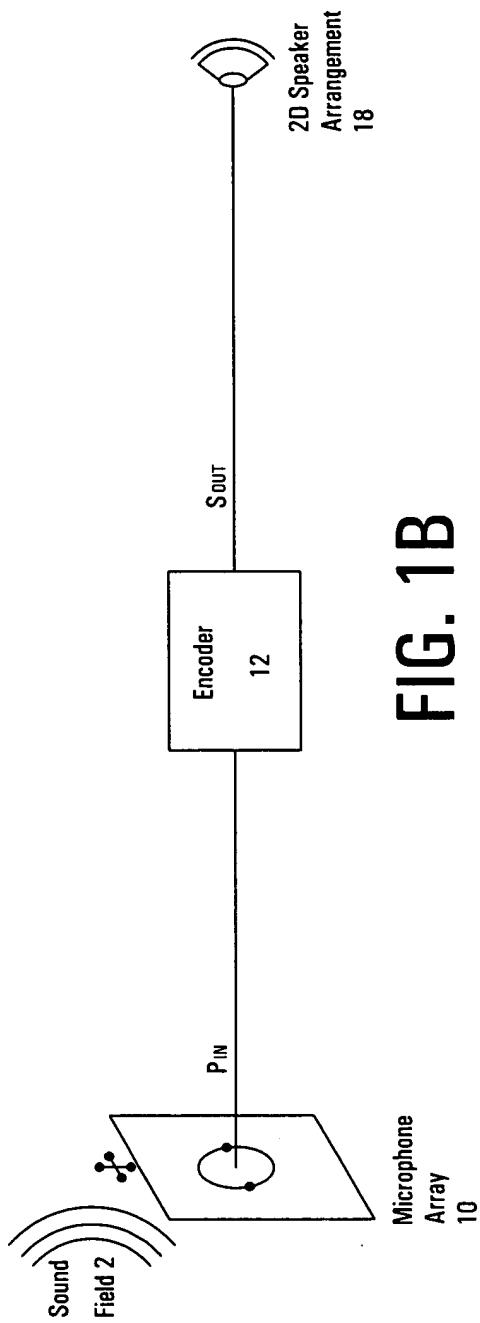
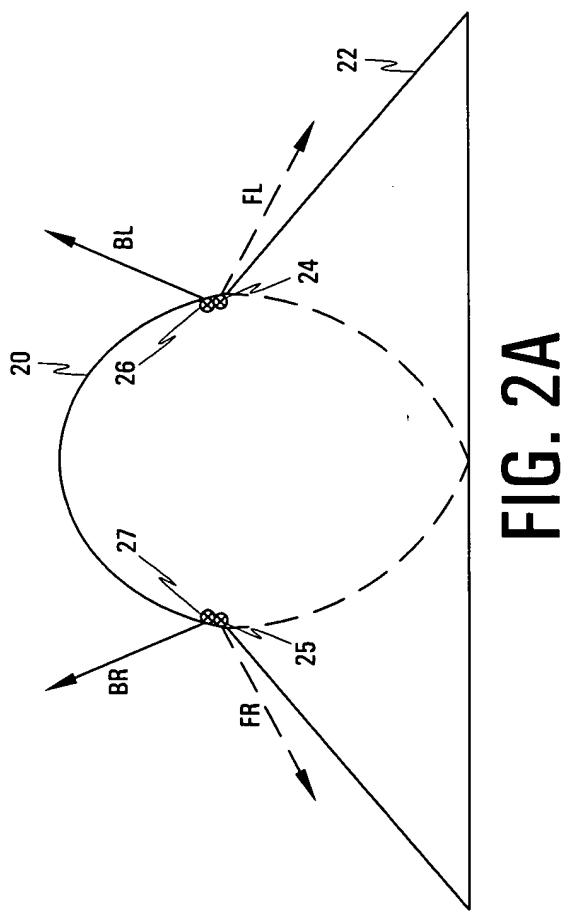
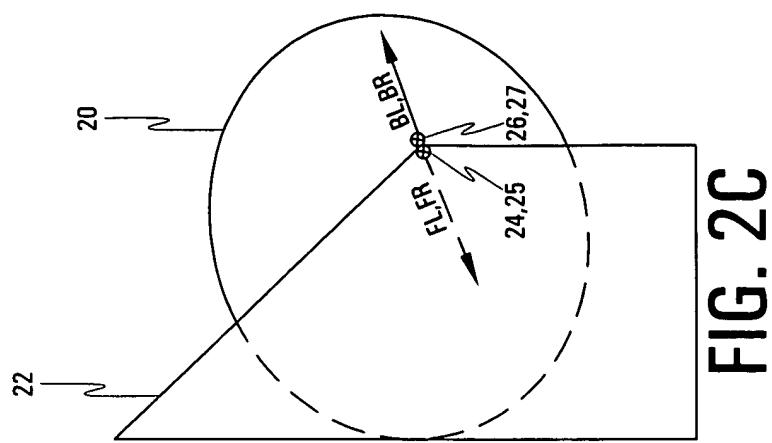


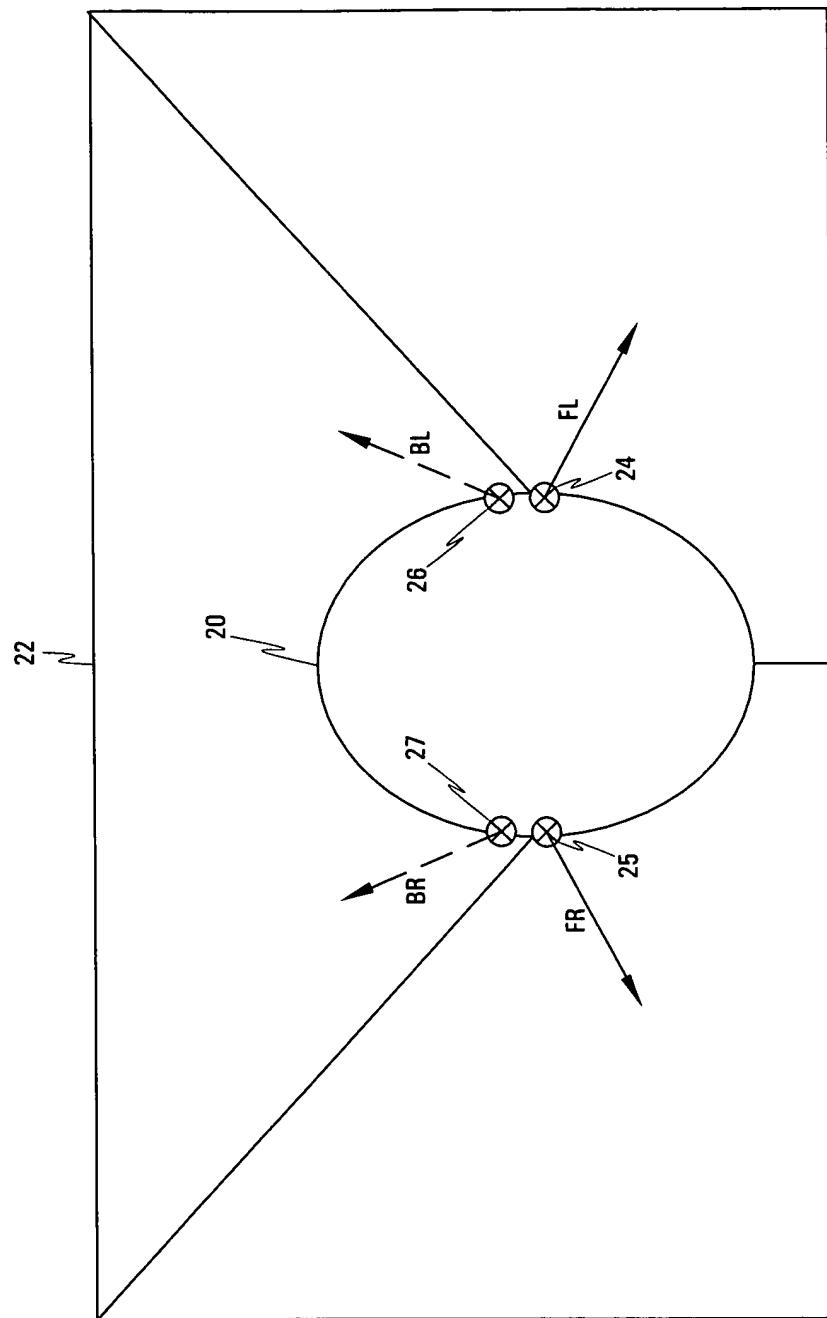
**FIG. 1A**



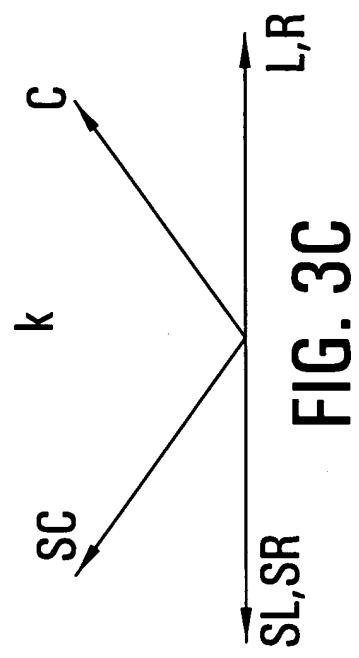
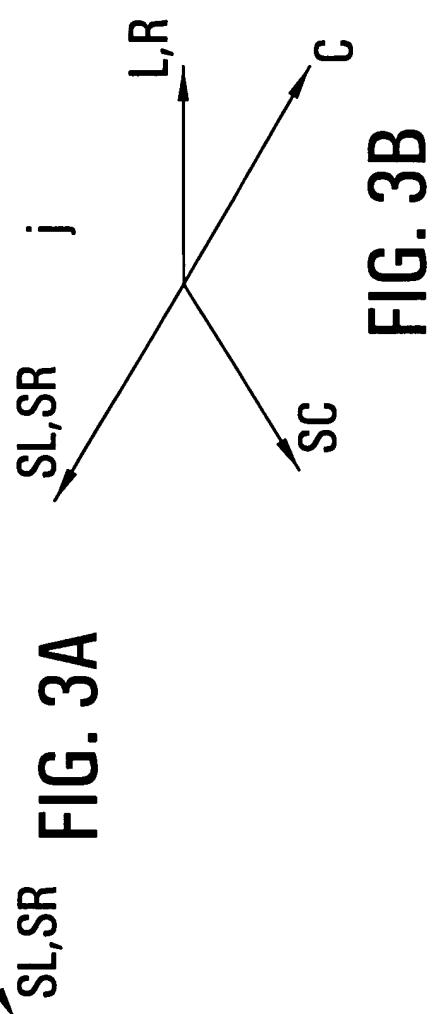
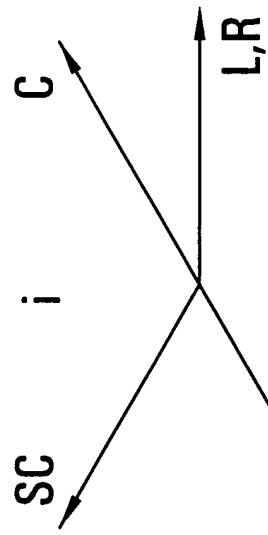
**FIG. 1B**

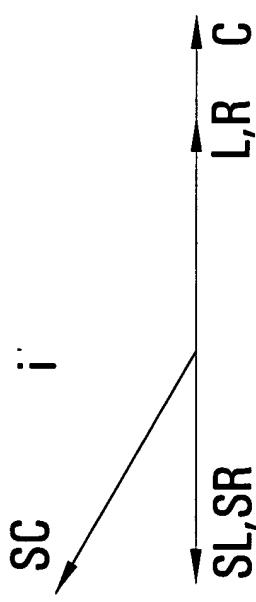




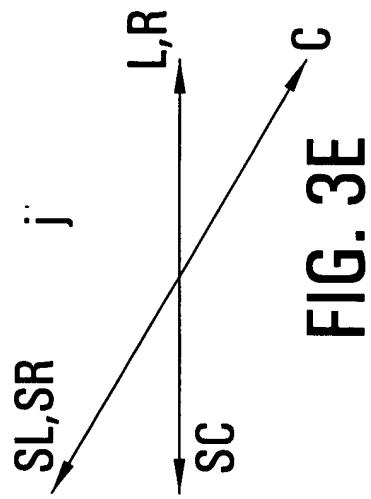


**FIG. 2B**

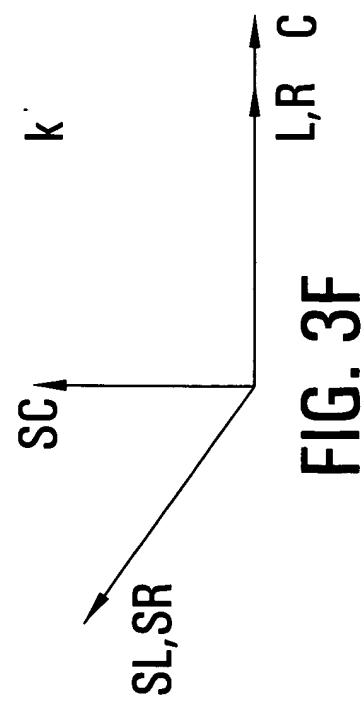




**FIG. 3D**



**FIG. 3E**



**FIG. 3F**

Mode "I" (inclined)				Mode "II" (x=0.8500)			
$\frac{\partial \mathbf{p}_*}{\partial \mathbf{p}_*}$		$\frac{\partial \mathbf{p}_*}{\partial \mathbf{S}_1}$		$\frac{\partial \mathbf{p}_*}{\partial \mathbf{S}_2}$		$\frac{\partial \mathbf{p}_*}{\partial \mathbf{S}_3}$	
0	0	$\frac{\partial \mathbf{p}_*}{\partial \mathbf{S}_1}$ : L	$\frac{\partial \mathbf{p}_*}{\partial \mathbf{S}_2}$ : L	0.850	0.000	0.601	0.736
0	0	$\frac{\partial \mathbf{p}_*}{\partial \mathbf{S}_1}$ : R	$\frac{\partial \mathbf{p}_*}{\partial \mathbf{S}_2}$ : R	0.000	0.850	0.601	0.736
30	30	C	SC			0.601	0.736
-30	-30	SL	SR			0.601	0.736
-30	-30	SR				0.601	0.736
min/max rec				Transformation (S) 4x4 or 6x6			
Mode "I" (juxtaposed); descending Q				$W=0.707W$	$\cos\alpha\cos\beta$	$\sin\alpha\cos\beta$	$\sin\beta$
$\frac{\partial \mathbf{p}_*}{\partial \mathbf{p}_*}$				$\frac{\partial \mathbf{p}_*}{\partial \mathbf{S}_1}$			
0	0	$\frac{\partial \mathbf{p}_*}{\partial \mathbf{S}_1}$ : L	$\frac{\partial \mathbf{p}_*}{\partial \mathbf{S}_2}$ : L	0.850	0.000	0.601	0.736
0	0	$\frac{\partial \mathbf{p}_*}{\partial \mathbf{S}_1}$ : R	$\frac{\partial \mathbf{p}_*}{\partial \mathbf{S}_2}$ : R	0.000	0.850	0.601	0.736
30	-30	C	SC			0.601	0.736
30	-30	SL	SR			0.601	0.736
30	-30	SR				0.601	0.736
min/max rec				Transformation (S) 4x4 or 6x6			
Mode "K" (on its back)				$W=0.707W$	$\cos\alpha\cos\beta$	$\sin\alpha\cos\beta$	$\sin\beta$
$\frac{\partial \mathbf{p}_*}{\partial \mathbf{p}_*}$				$\frac{\partial \mathbf{p}_*}{\partial \mathbf{S}_1}$			
0	0	$\frac{\partial \mathbf{p}_*}{\partial \mathbf{S}_1}$ : L	$\frac{\partial \mathbf{p}_*}{\partial \mathbf{S}_2}$ : L	0.850	0.000	0.601	0.736
0	0	$\frac{\partial \mathbf{p}_*}{\partial \mathbf{S}_1}$ : R	$\frac{\partial \mathbf{p}_*}{\partial \mathbf{S}_2}$ : R	0.000	0.850	0.601	0.736
30	60	C	SC			0.601	0.736
0	0	SL	SR			0.601	0.736
0	0	SR				0.601	0.736
min/max rec				Transformation (S) 4x4 or 6x6			
Mode "II" (x=0.8500)				$W=0.707W$	$\cos\alpha\cos\beta$	$\sin\alpha\cos\beta$	$\sin\beta$

FIG 4A

FIG 4B

FIG 4C

Mode <i>i</i> high tilted		[S1] \		[Pm]: FL		FR		W		X		Y		Z	
°Up*		[Sout]: L		0.850	0.000			0.850	0.000			0.000	0.000		
-30		R		0.000	0.850			0.601	0.850			0	0.000		
-30		C						0.601	0.425			0	0.736		
0		SC						0.601	0.531			0.638	-0.184		
60		SL						0.601	0.531			-0.638	-0.184		
0		SR						0.601	-0.638						
0	minmax rec	Transformation [S] 4x4 or 6x6						W=0.707W	cosAcosE						
									sinAcosE						
Mode <i>j</i> high tilted		[S1] \		[Pm]: FL		FR		W		X		Y		Z	
°Up*		[Sout]: L		0.850	0.000			0.850	0.000			0	-0.736		
-30		R		0.000	0.850			0.601	0.850			0	0.000		
-30		C						0.601	0.106			0.638	0.562		
0		SC						0.601	-0.106			-0.638	0.552		
60		SL						0.601							
60		SR						0.601							
minmax rec	Transformation [S] 4x4 or 6x6							W=0.707W	cosAcosE						
									sinAcosE						
Mode <i>K</i> high tilted		[Sk] \		[Pm]: FL		FR		W		X		Y		Z	
°Up*		[Sout]: L		0.850	0.000			0.850	0.000			0	0.000		
-30		R		0.000	0.850			0.601	0.850			0	0.000		
-30		C						0.601	0.000			0	0.850		
0		SC						0.601	-0.368			0.736	0.213		
90		SL						0.601	-0.368			-0.736	0.213		
30		SR						0.601							
30	minmax rec	Transformation [S] 4x4 or 6x6						W=0.707W	cosAcosE						
									sinAcosE						

FIG 4D

FIG 4E

FIG 4F

-ITU 6.1-to-PerAmbio reconstitution-->		{B} noise degradation dB 1.41							
		<u>L</u>	<u>R</u>	<u>C</u>	<u>SC</u>	<u>SL</u>	<u>SR</u>	<u>Pout</u>	
{Pn} \ {Sout}	FL	1.176	0.000					1.00	
	FR	0.000	1.176					1.00	
	W			0.624	0.208	0.416	0.416	0.71	
	X			0.679	-0.679	0.000	0.000	0.50	
	Y			0	0	0.784	-0.784	0.50	
	Z			0.294	0.882	-0.588	-0.588	0.50	
Reconstitute {P}		min/max	-0.784	1.176	{Pout}\{Pn\}= 0			{Px}(Sout)	
-ITU 6.1-to-PerAmbio reconstitution-->		{B} noise degradation dB 1.41						{Pout}	
		<u>L</u>	<u>R</u>	<u>C</u>	<u>SC</u>	<u>SL</u>	<u>SR</u>	{Pout}	
{Pn} \ {Sout}	FL	1.176	0.000					1.00	1.00
	FR	0.000	1.176					1.00	1.00
	W			0.624	0.208	0.416	0.416	0.71	
	X			0.679	-0.679	0.000	0.000	0.50	
	Y			0	0	0.784	-0.784	0.50	
	Z			0.294	-0.882	0.588	0.588	0.50	
Reconstitute {P}		min/max	-0.882	1.176	{Pout}\{Pn\}= 0			{Px}(Sout)	
-ITU 6.1-to-PerAmbio reconstitution-->		{B} noise degradation dB 2.66						{Pout}	
		<u>L</u>	<u>R</u>	<u>C</u>	<u>SC</u>	<u>SL</u>	<u>SR</u>	{Pout}	
{Pn} \ {Sout}	FL	1.176	0.000					1.00	0.71
	FR	0.000	1.176					1.00	0.71
	W			0.609	-0.352	0.703	0.703	0.50	
	X			0.861	-0.497	-0.182	-0.182	0.50	
	Y			0	0	0.679	-0.679	0.50	
	Z			0.000	1.358	-0.679	-0.679	0.50	
Reconstitute {P}		min/max	-0.679	1.358	{Pout}\{Pn\}= 0			{Px}(Sout)	

**FIG 5A**

**FIG 5B**

**FIG 5C**

$\rightarrow$ ITU 6.1-to-PerAmbio reconstitution		$\rightarrow$ ITU noise degradation dB 1.41			
$\{Sout\}$	$\{Sout\}$	$L$	$R$	$C$	$SC$
[Pout]: FL	1.176	0.000			
FR	0.000	1.176			
W			0.624	0.208	0.416
X			0.735	-0.147	-0.294
Y			0	0	0.784
Z			-0.085	1.104	-0.509

Reconstitute {P} min/max -0.784 1.176  $\rightarrow$  {Pout} \ {Pin} = 0  $\{P\} \times \{Sout\}$

$\rightarrow$ ITU 6.1-to-PerAmbio reconstitution		$\rightarrow$ ITU noise degradation dB 1.41			
$\{Sout\}$	$\{Sout\}$	$L$	$R$	$C$	$SC$
[Pout]: FL	1.176	0.000			
FR	0.000	1.176			
W			0.624	0.208	0.416
X			0.441	-1.029	0.294
Y			0	0	0.784
Z			-0.594	-0.425	0.509

Reconstitute {P} min/max -1.029 1.176  $\rightarrow$  {Pout} \ {Pin} = 0  $\{P\} \times \{Sout\}$

$\rightarrow$ ITU 6.1-to-PerAmbio reconstitution		$\rightarrow$ ITU noise degradation dB 3.08			
$\{Sout\}$	$\{Sout\}$	$L$	$R$	$C$	$SC$
[Pout]: FL	1.176	0.000			
FR	0.000	1.176			
W			0.609	-0.352	0.703
X			0.746	0.249	-0.497
Y			-	0	0.679
Z			-0.431	1.425	-0.497

Reconstitute {P} min/max -0.679 1.425  $\rightarrow$  {Pout} \ {Pin} = 0  $\{P\} \times \{Sout\}$

**FIG 5D**

**FIG 5E**

**FIG 5F**

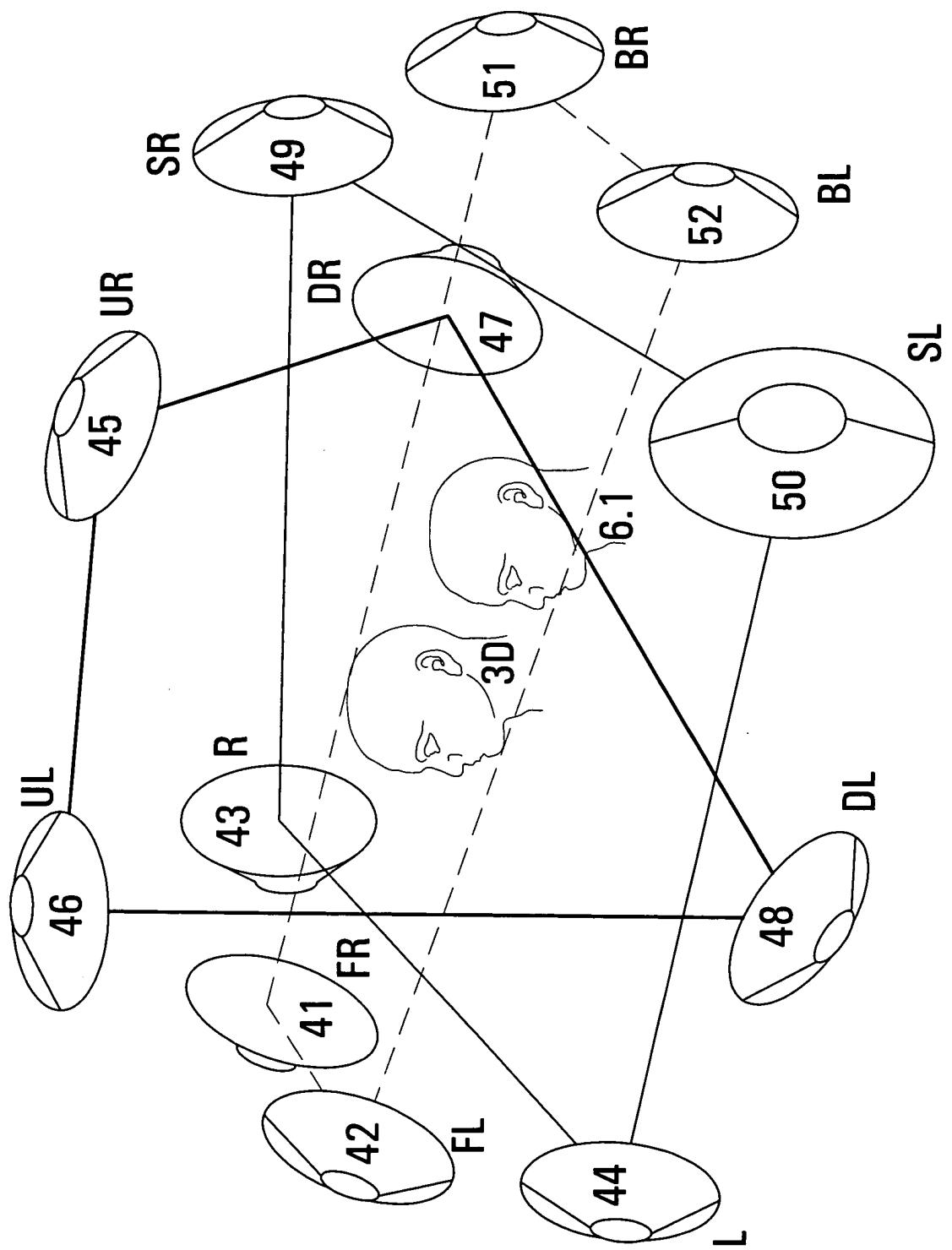


FIG.6